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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,564	01/29/2004	Tae-Sung Kim	P57001	4048
75	10/13/2006		EXAMINER	
Robert E. Bushnell			ERDEM, FAZLI	
1522 K Street, I Washington, D	N.W., Suite 300 C 20005		ART UNIT PAPER NUMBER 2826	
		•		
		·	DATE MAILED: 10/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Annication No	Applicant(s)					
	Application No.	Applicant(s)					
Office Astion Comments	10/766,564	KIM, TAE-SUNG					
Office Action Summary	Examiner	Art Unit					
	Fazli Erdem	2826					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this co D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 7/13/	2006						
	action is non-final.						
<u>, </u>	/						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims			, <u></u>				
4)⊠ Claim(s) <u>29-35</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
5)⊠ Claim(s) <u>29-35</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers	·						
9) The specification is objected to by the Examiner	•						
10) The drawing(s) filed on is/are: a) acce		xaminer.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correcti	•	` ,	R 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex			• •				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau							
* See the attached detailed Office action for a list of the control of the contro	or the certified copies not received	a.					
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da	(PTO-413)					
(PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Pa						
Paper No(s)/Mail Date	6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 29-35 rejected under 35 U.S.C. 103(a) as being unpatentable over Fujikawa (6,414,738) in view of Ohori et al. (2001/0052954).

Regarding Claims 29-35, Fujikawa discloses a semiconductor display device where in Figs. 1, 3, 4 and 5, it is disclosed a flat panel display comprising a plurality of sub-pixels driven by thin film transistors 30, each of the thin film transistors including a source electrode 8 and drain electrode 9 gate electrode 7 and a polysilicon semiconductor layer 2 and each of the sub-pixels including a firs electrode, a second electrode and a light emitting layer disposed between the first electrode and the second electrode wherein one of the source and drain electrode includes a first titanium layer 13, a titanium nitride layer 14, and aluminum layer 9 and a titanium nitride layer 15. Fujikawa, fails to disclose the required titanium layer on top of the titanium nitride layer. However, Ohori et al. disclose a liquid crystal display device where in paragraphs 52-54, titanium layer is located on top between the source electrode and transparent display electrode.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required titanium layer as the top layer between the

source electrode and a transparent display electrode in Fujikawa as taught by Ohori et al. in order to have a better electrical connection.

Regarding Claim 29, Fig. 7 of Fujikawa discloses the required nitrogen concentration.

Regarding Claims 30-33, column 8 of Fujikawa discloses the required film/layer thicknesses.

Regarding Claim 34 and 34, column 8 lines 15-40 of Fujikawa discloses the required concentration values.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/766,564

Art Unit: 2826

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

FE September 24, 2006